

FIG.1

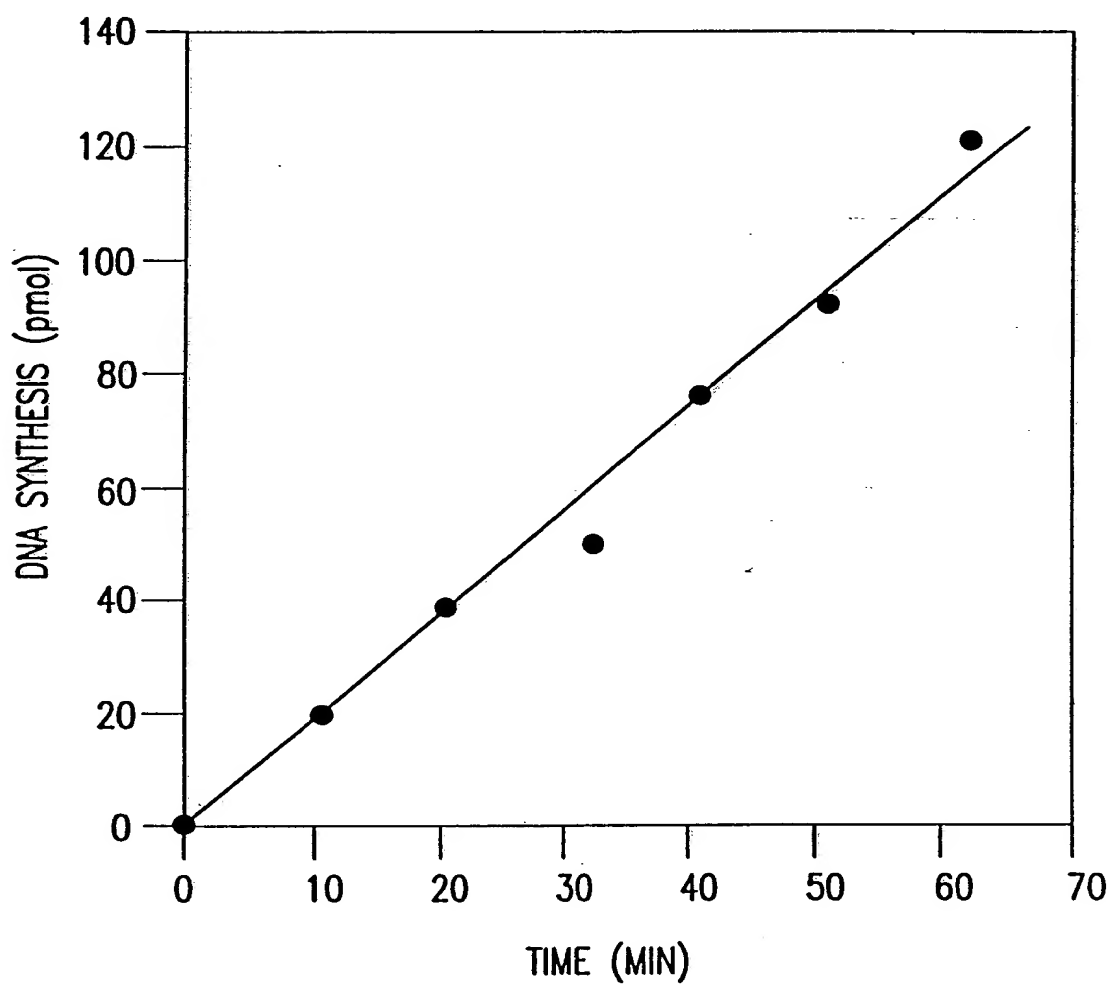


FIG.2

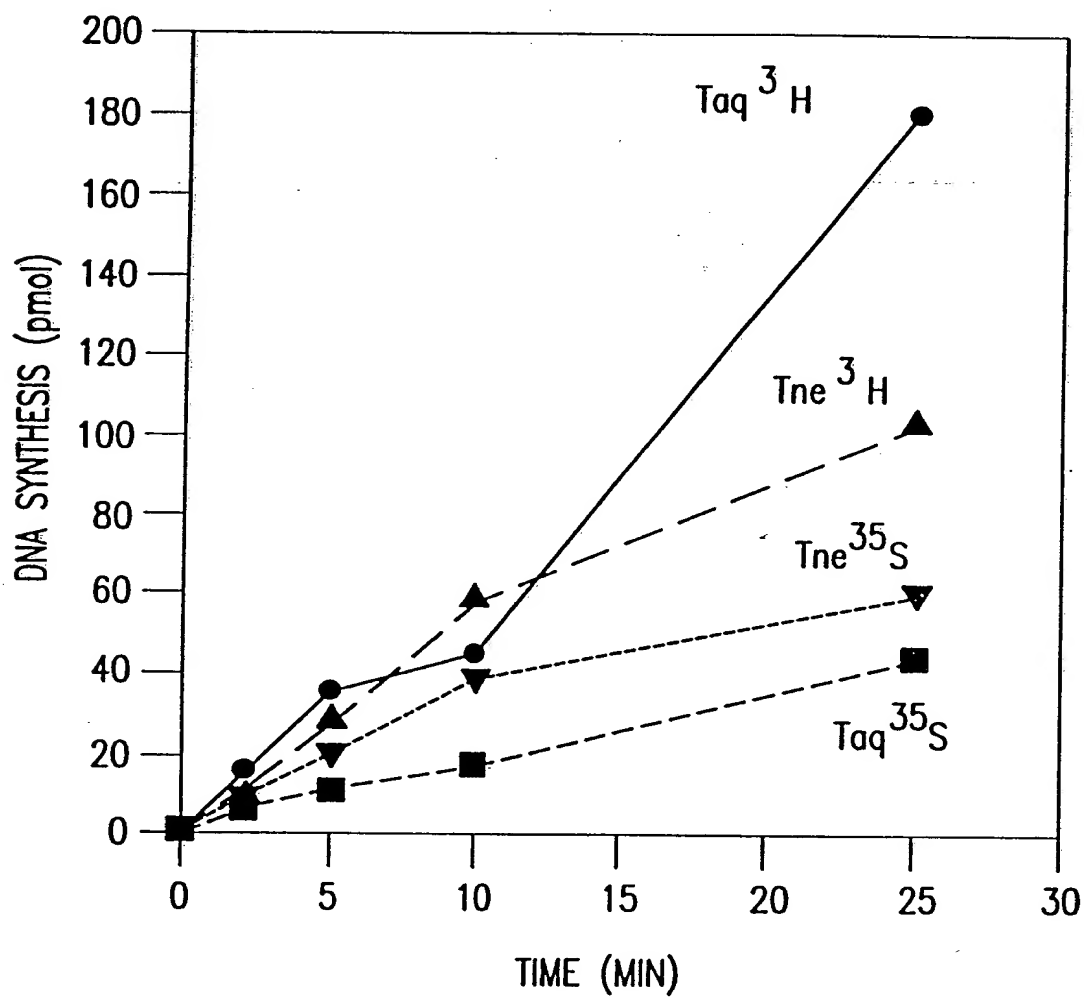


FIG.3

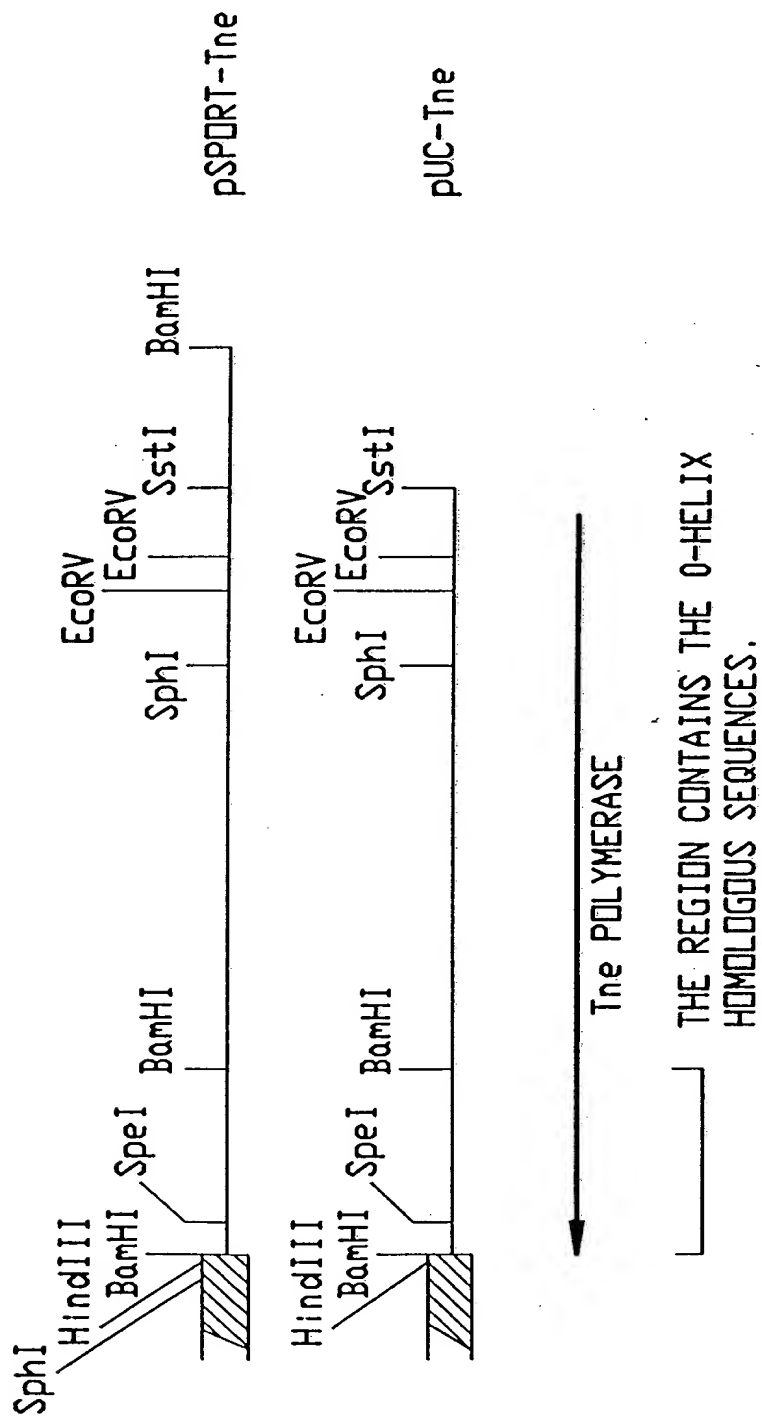


FIG.4



BamHI

1 GGATCCAGAC TGGTGGATCG TCAGTGGGA TTATCCCAA ATAGAACTCA GAATCCTCGC
G S R L V D R Q C G L F P N R T Q N P R
→ D P D W W I V S A D Y S Q I E L R I L
I Q T G G S S V R I I P K - N S E S S

61 TCATCTCAGT GGTGATGAGA ACCTTGTA GGCCTTCAG GAGGGCATCG ATGTGCACAC
S S Q W - - E P C E G L R G G H R C A H
→ A H L S G D E N L V K A F E E G I D V H
L I S V V M R T L - R P S R R A S M C T

121 CTTGACTGCC TCCAGGATCT ACAACGTAAA GCCAGAAGAA GTGAACGAAG AAATGCGACG
L D C L Q D L Q R K A R R S E R R N A T
→ T L T A S R I Y N V K P E E V N E E M R
P - L P P G S T T - S Q K K - T K K C D

181 GGTGGAAAG ATGGTGAAT TCTCTATAAT ATACGGTGTC ACACCGTACG GTCTTTCTGT
G W K D G E L L Y N I R C H T V R S F C
→ R V G K M V N (F) S I I Y G V T P Y G L S
G L E R W - T S L - Y T V S H R T V F L

241 GAGACTTGA ATACCGGTTA AAGAAGCAGA AAAGATGATT ATCAGCTATT TCACACTGTA
E T W N T G - R S R K D D Y Q L F H T V
→ V R L G I P V K E A E K M I I S Y F T L
- D L E Y R L K K Q K R - L S A I S H C

301 TCCAAAGGTG CGAAGCTACA TCCAGCAGGT TGTTCAGAG GCAAAAGAGA AGGCCTACGT
S K G A K L H P A G C C R G K R E G L R
→ Y P K V R S Y I Q Q V V A E A K E K G Y
I Q R C E A T S S R L L Q R Q K R R A T

361 CAGGACTCTC TTTGAAGAA AAAGAGATAT TCCCAGCTC ATGGCAAGGG ACAAGAACAC
Q D S L W K K K R Y S P A H G K G Q E H
→ V R T L F G R K R D I P Q L M A R D K N
S G L S L E E K E I F P S S W Q G T R T

421 CCAGTCCGAA GGCGAAAGAA TCGCAATAAA CACCCCCATT CAGGGAAGTG CGGCAGATAT
P V R R R K N R N K H P H S G N C G R Y
→ T Q S E G E R I A I N T P I Q G T A A D
P S P K A K E S Q - T P P F R E L R Q I

FIG.5A



481 AATAAAATTG GCTATGATAG ATATAGACGA GGAGCTGAGA AAAAGAAACA TGAAATCCAG
N K I G Y D R Y R R G A E K K K H E I Q
→ I I K L A M I D I D E E L R K R N M K S
- - N W L - - I - T R S - E K E T - N P

541 AATGATCATT CAGGTTGATG ACGAACTGGT CTTCGAGGTT CCCGATGAGG AAAAAGAAGA
N D H S G S - R T G L R G S R - G K R R
→ R M I I Q V H D E L V F E V P D E E K E
E - S F R F M T N W S S R F P M R K K K

601 ACTAGTTGAT CTGGTGAAGA ACAAATGAC AAATGTGGTG AAACCTCTCTG TGCCTCTTGA
T S - S G E E Q N D K C G E T L C A S -
→ E L V D L V K N K M T N V V K L S V P L
N - L I W - R T K - Q M W - N S L C L L

661 GGTGACATA AGCATCGGAA AAAGCTGGTC TTGA
G - H K H R K K L V L
→ E V D I S I G K S W S -
R L T - A S E K A G L

FIG.5B

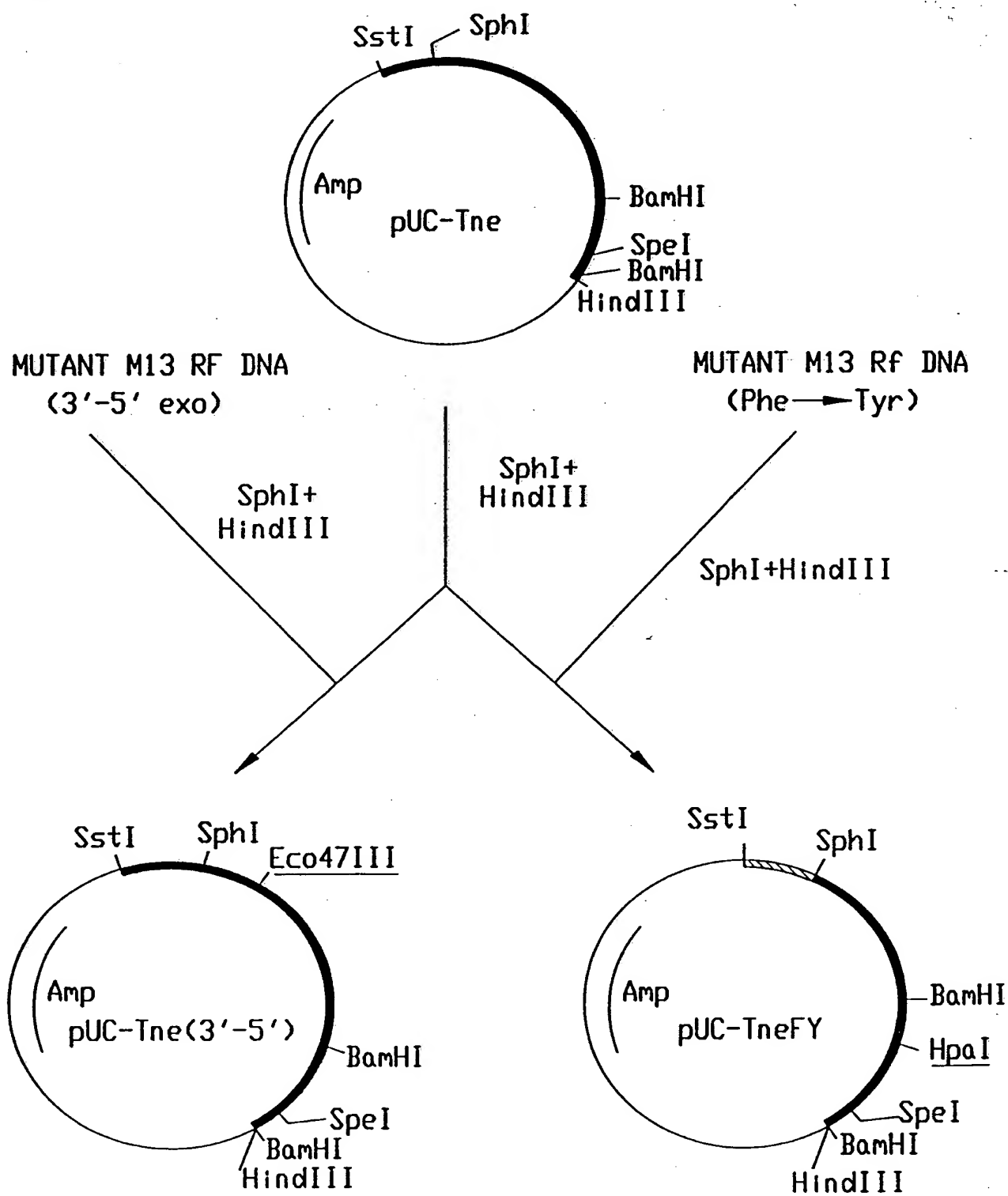


FIG.6A

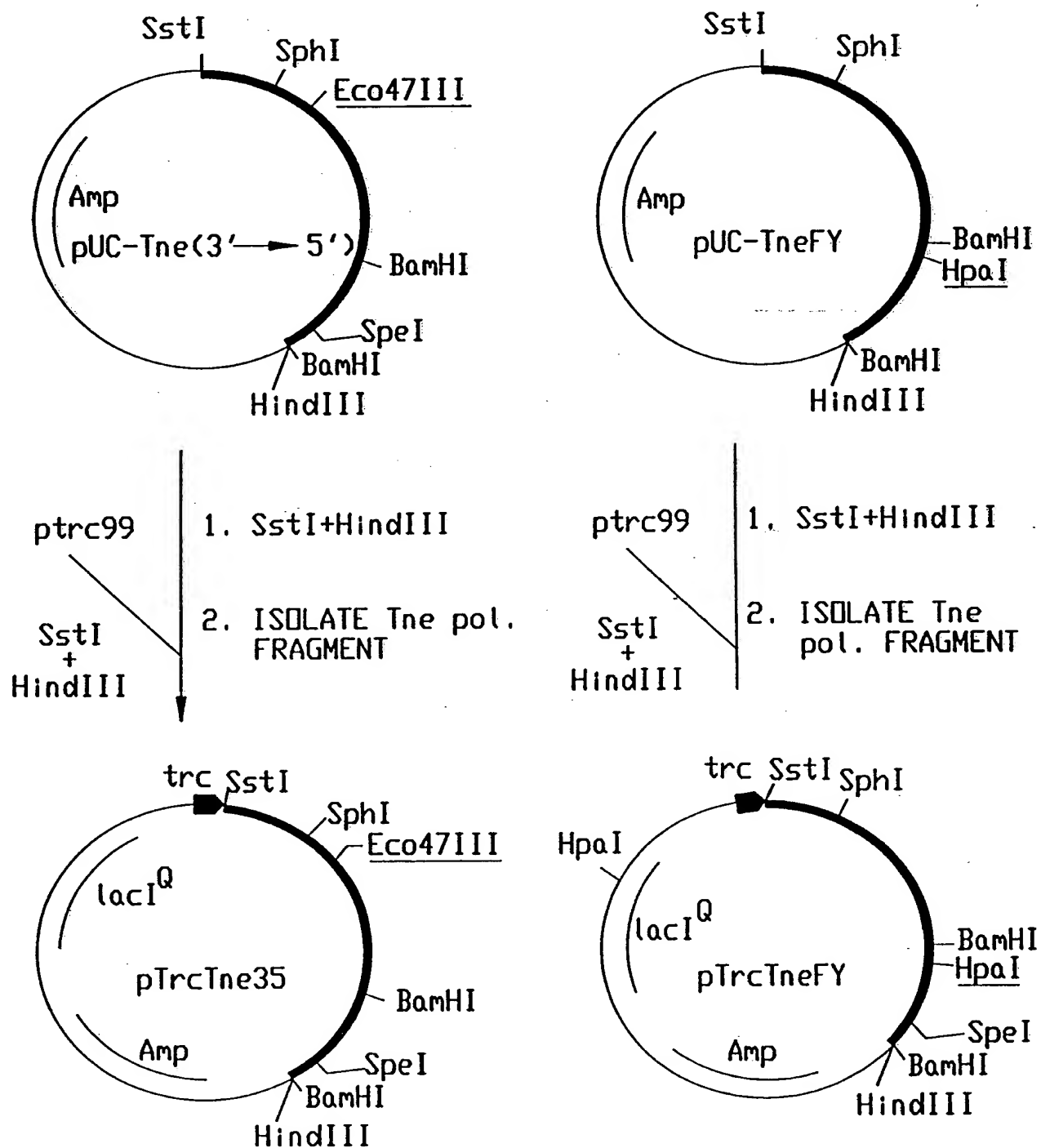


FIG.6B

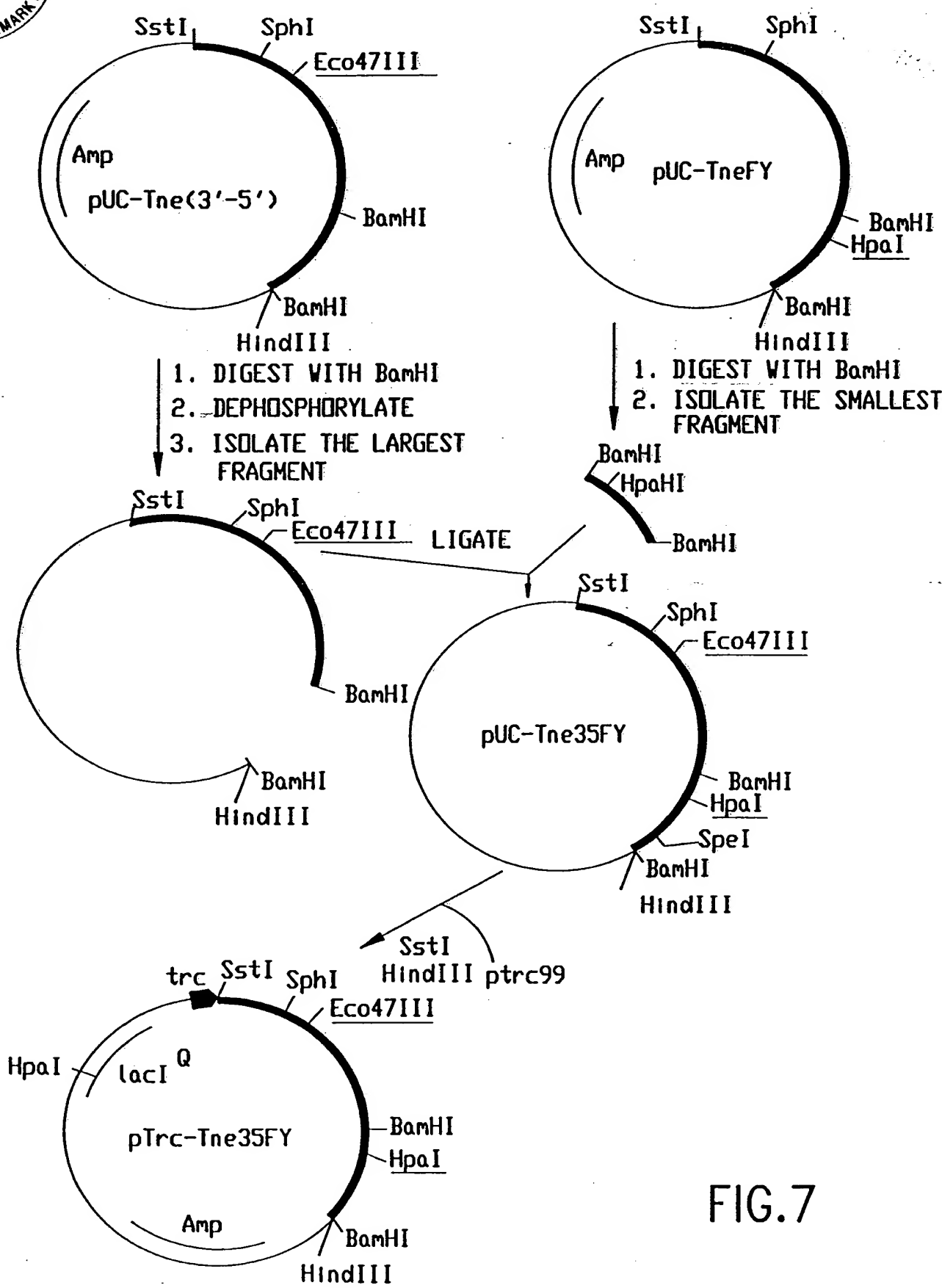


FIG.7

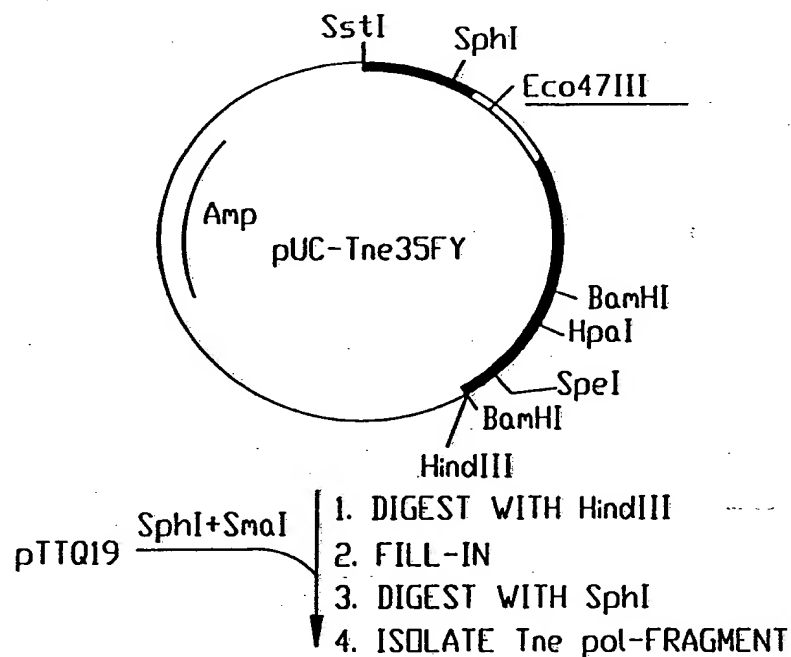
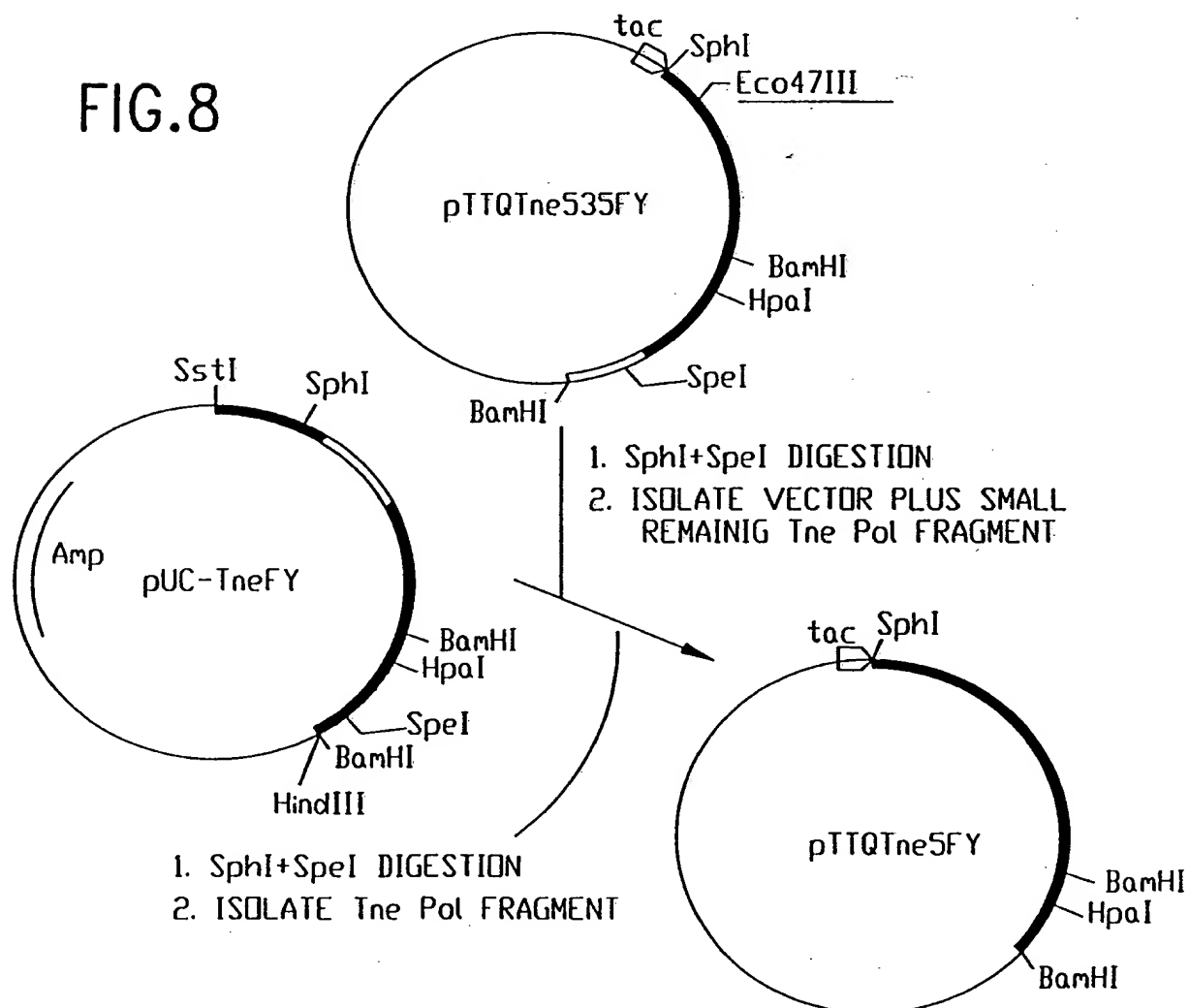


FIG.8





A B
ACGT GATC



FIG.9



FIG.10

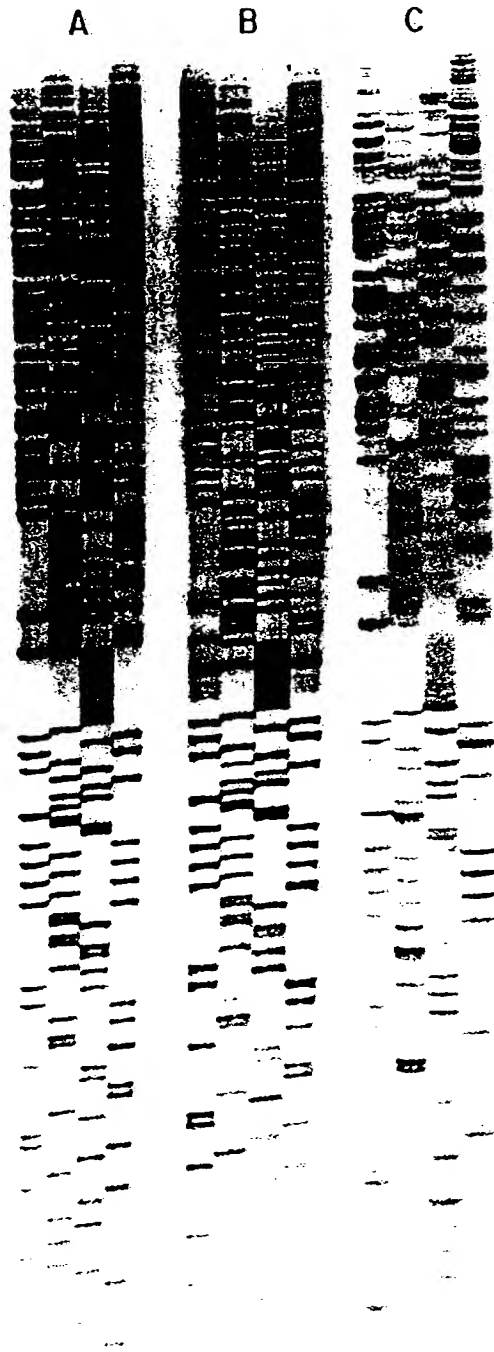


FIG.11

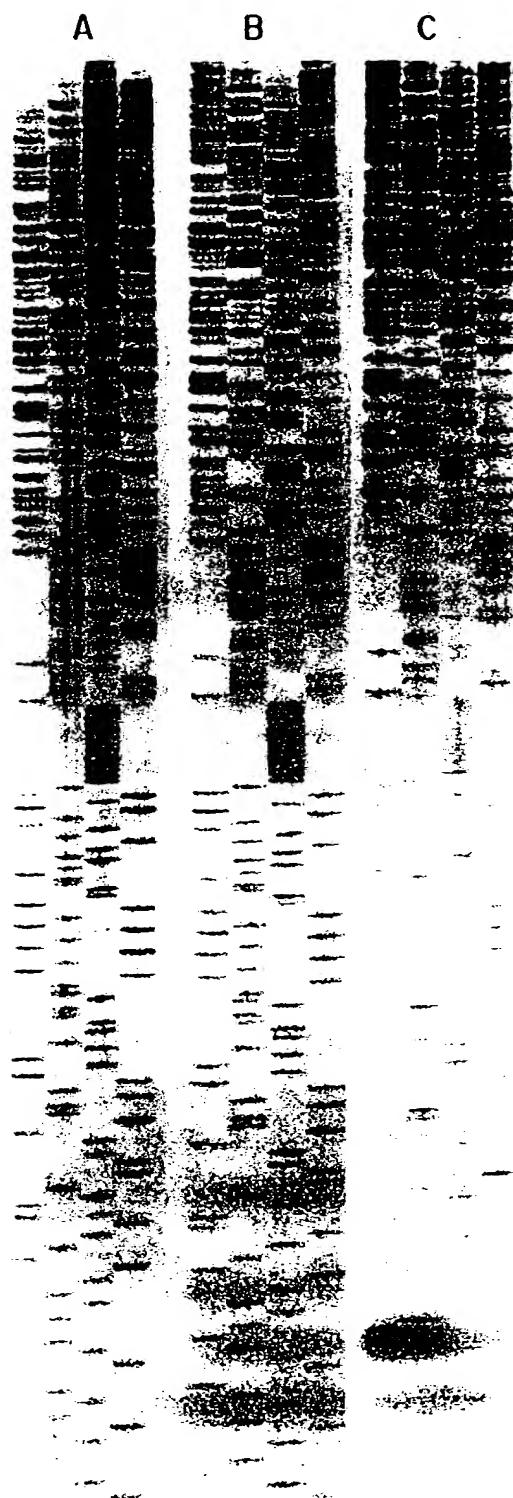


FIG.12

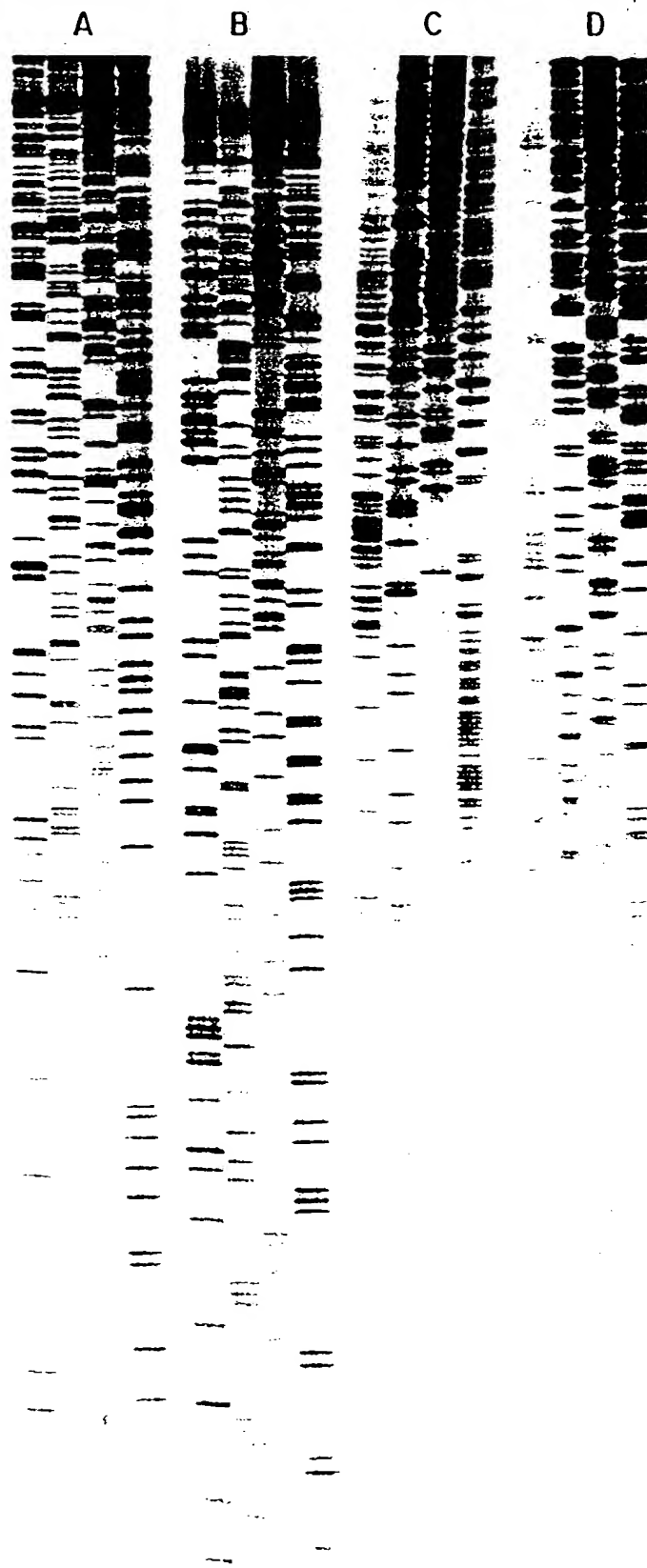


FIG.13

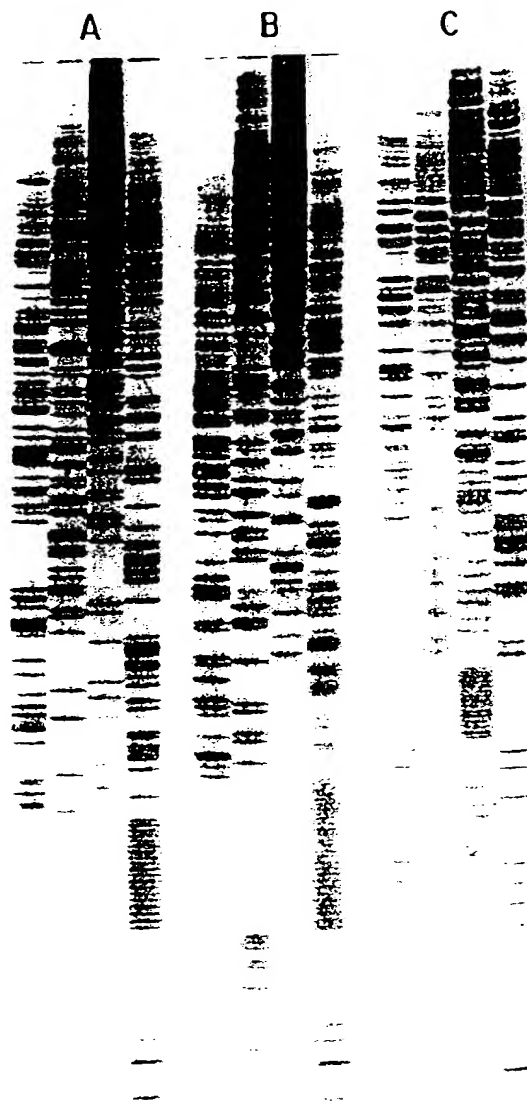


FIG.14A

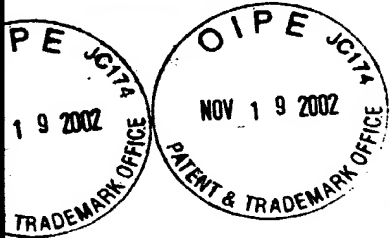
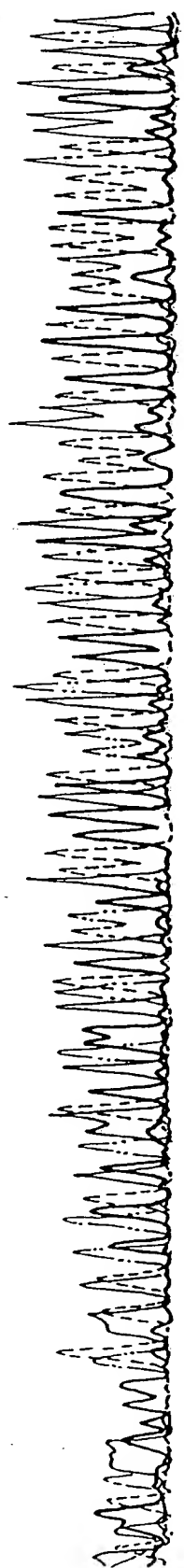


FIG.14B



FIG.15

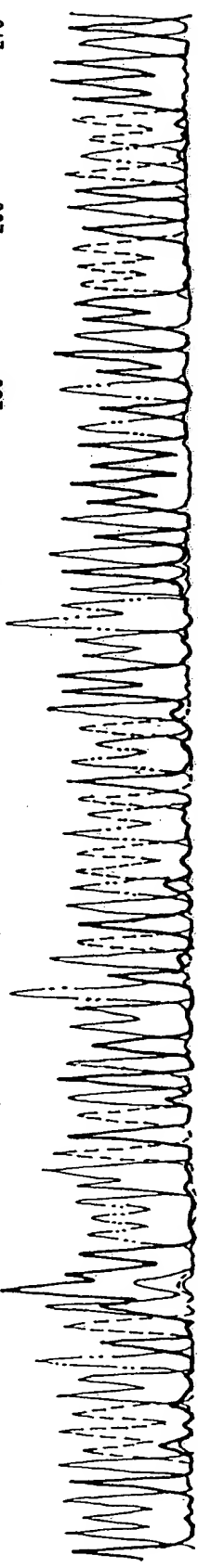
TCGTACCGGCGNTCN CNAATCGACTG CAGCATGCAAGC TGGCTAATCATGGTCATAGCTGTTCCCTGCTGTAATGTTATCCGCTCAC



AATCCACACAACATACGAGCCGGAAGCATAAAGTGAAGCCCTGGGGTGCCTAATGAGTAGCTAATCAGCTTATTCGGCTGCTCAC



GCCCGCTTCCAGTCGGGAACCTGTCGTGCCAGCTGCATTATGAATCGGCCAACGGCGGGGAGAGCGGTTTTCGGTATTGGCGG



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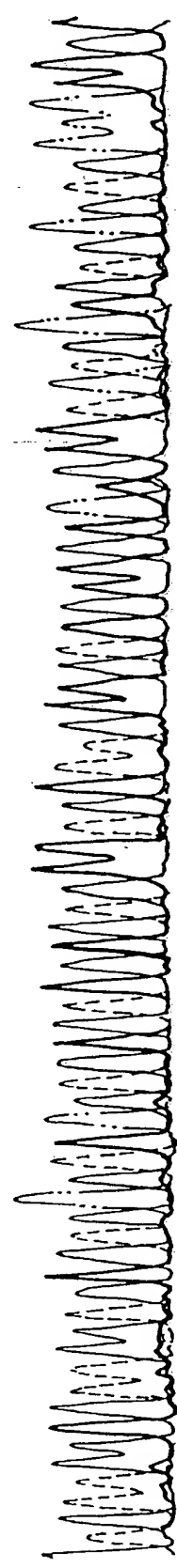
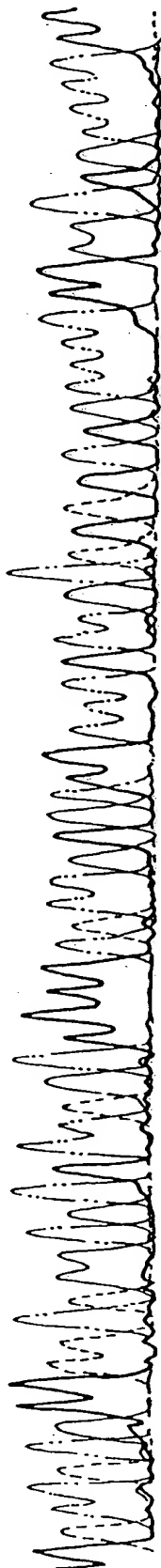


FIG. 16A

GTAAACGGTTATCCACAGATCAGGGGATACGCCAGGAAGAACAATGTGAGCAAAGGCCAGCAAAAGG
350 360 370 380 390 400 410



CCAGGAACCGTTAAAGGCCGGTTGCTGGCGTTTTTCATAGGCTCCGCCCCCTTGA CGAGCATCA
420 430 440 450 460 470 480



CAAAATTCCAGCCTTCAAGTTCA GAGTGGCGGAACCCGACAGGACTATAAAGATTACCA GGGGTTTTTCC CC
490 500 510 520 530 540 550 560



CTGGGAAGCTNCCCTTCGTGGCCTCTCTCCCTGTTCCCGAACC TGGCCGGTTTAACCGGATACCN GNTCCGCCCTTTTNTCC
570 580 590 600 610 620 630 640



FIG.16B



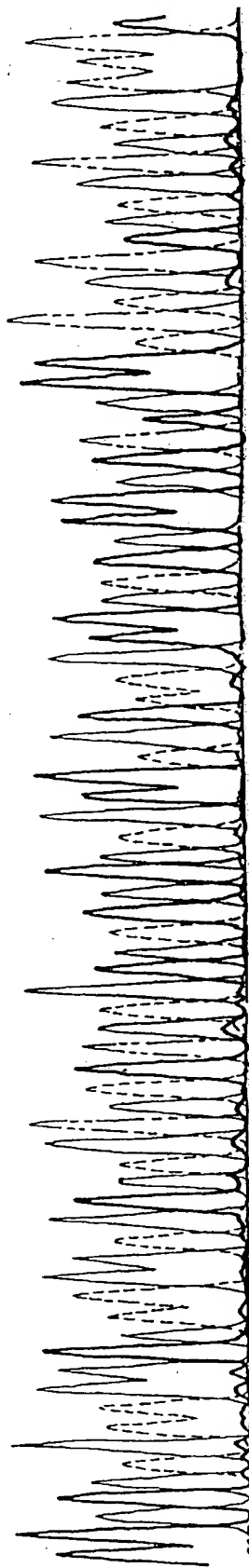
CTTNGCGGGAANCC TTGGGNTTTINGNAAANGCTAAGGTT
650 660 670 680



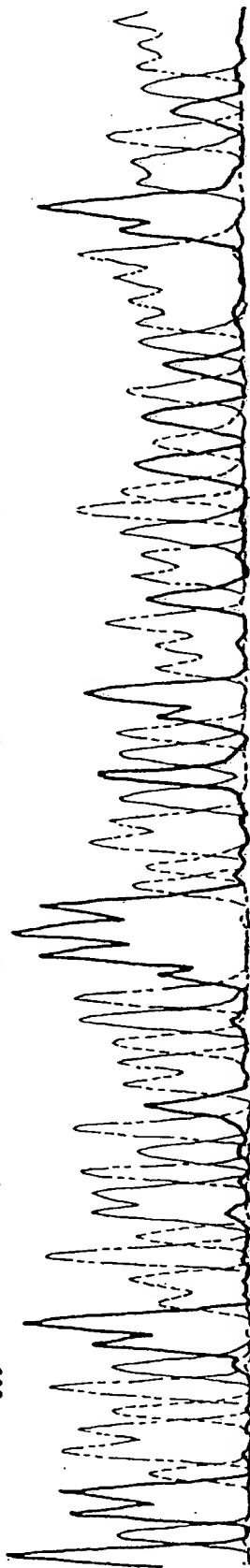
FIG.16C



GGCGCTTCGGCTTCCTCGCTCAGTACTCGCTGCGCTCGGTTCGGCTGCGGGA GCGGTATCAGCTCACTCAAAG
280 290 300 310 320 330 340 350



GGGTAATACGGTTATCCACAGAAATCAGGGGATACGGCAGGAAGAACAATGTGA G CAAAAGGCCAGCAA
360 370 380 390 400 410 420



AGGCCAGGAACCGTAAAGGCGCGCTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGANGAGC
430 440 450 460 470 480

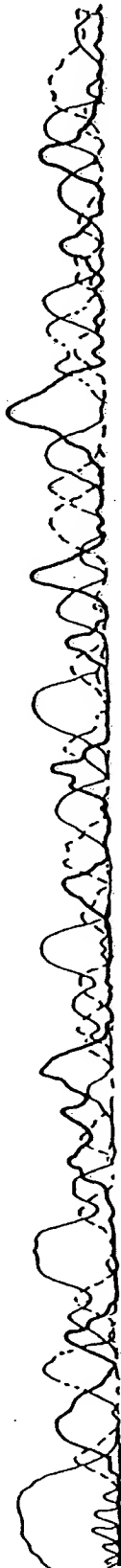


FIG.16E

ATCANA A AAATCG ANGCTCANGTC ANAGGTGGCGAAACCC GACA GGNC T ATTAAAG ATNCCCAGG CGTTTT
490 500 510 520 530 540 550 560



CCCCC TGGG AAGCTCCCTCGTGGGGCTCTCCTGGTTNCGGNNCCCTGNCGGNITTA CCG GGGAT AANCTTGTTCCGGNC T T T
570 580 590 600 610 620 630 640



CCCC T T CNGGG AAAANGGTGGGGGGTTTNTNNAA AAGGCTCAA GGCTGGT ANG
650 660 670 680 690 700



FIG.16F

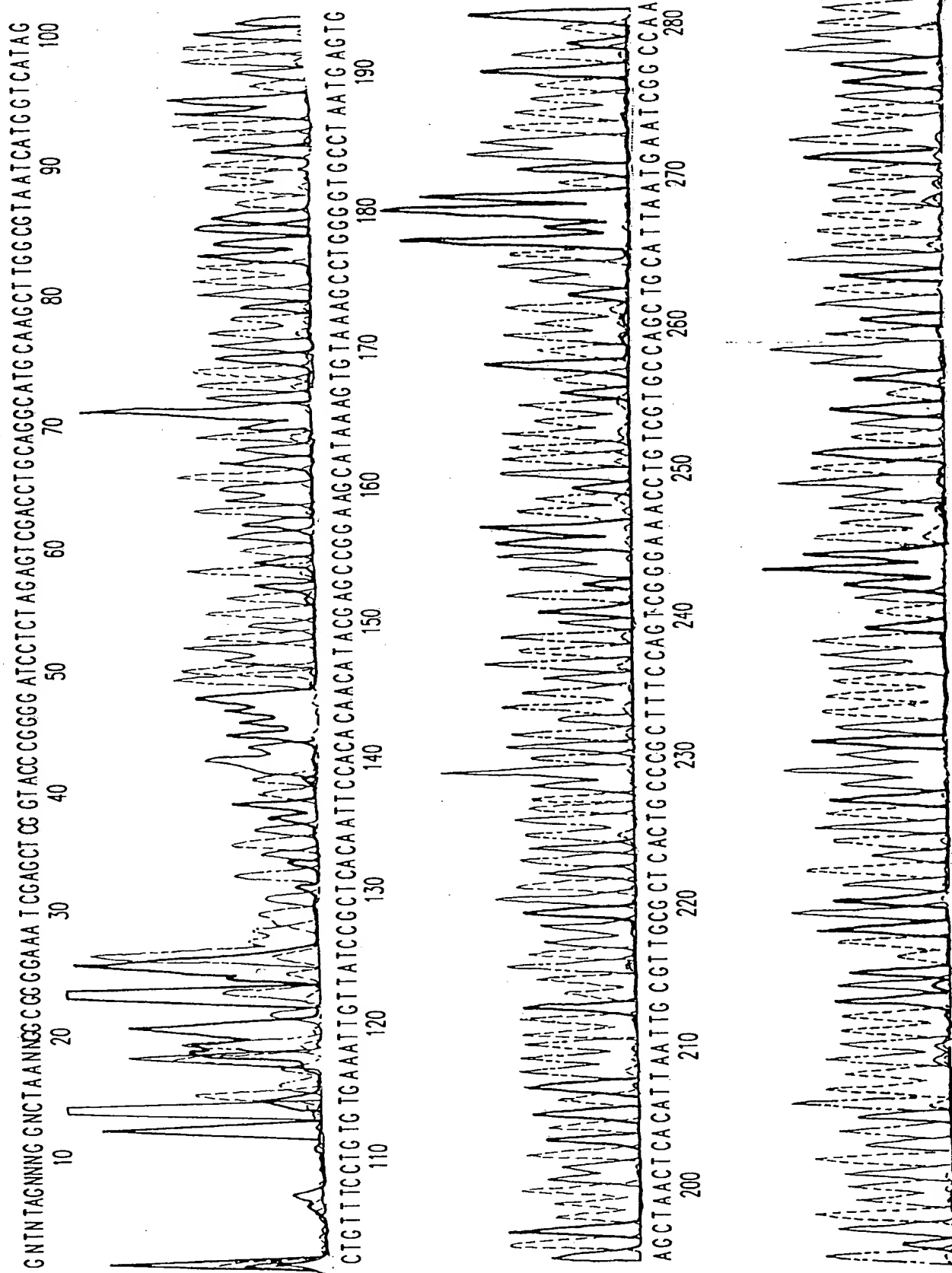
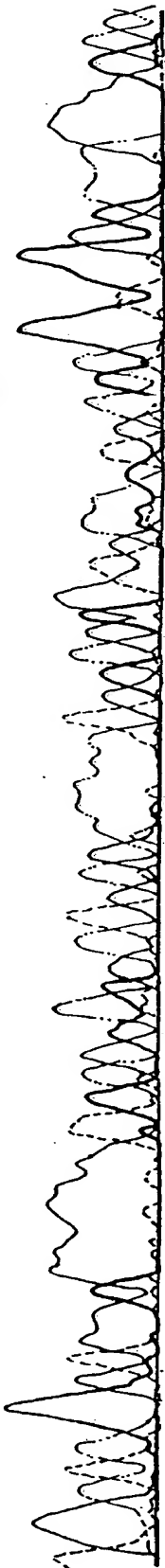


FIG.17A

FIG. 17B

ICC A T A G G C T C C G C C C C C T T G A C G A G C A A T C A A A A T C G A C G C T C A A A G T C A G A G G T G G C G A A A C C C C G A C
510 520 530 540 550 560 570



A G G G A C T T A T A A G A T A C C C A G G C C G T T I C C C C C T G G A A G C T C C C C T C C G T G C G C T T C C G A C C C T G C C G C T T T A C
580 590 600 610 620 630 640 650 660



C N G G A T N C C T G T C C G C C C T T T I N T C C C T T C N G G N A A C C G G C G C C T T T T T T T T
670 680 690 700 710



FIG.17C

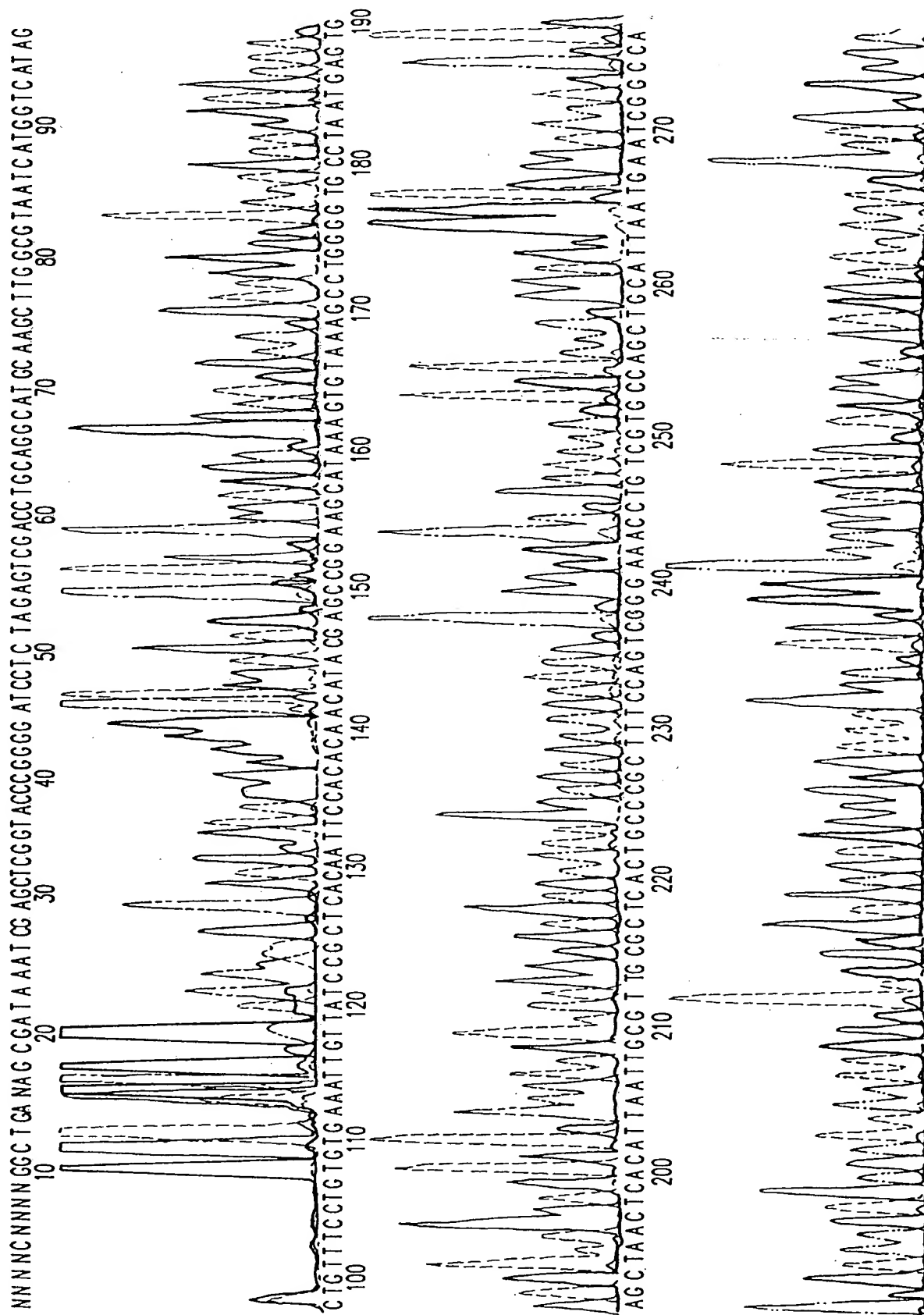


FIG.17D

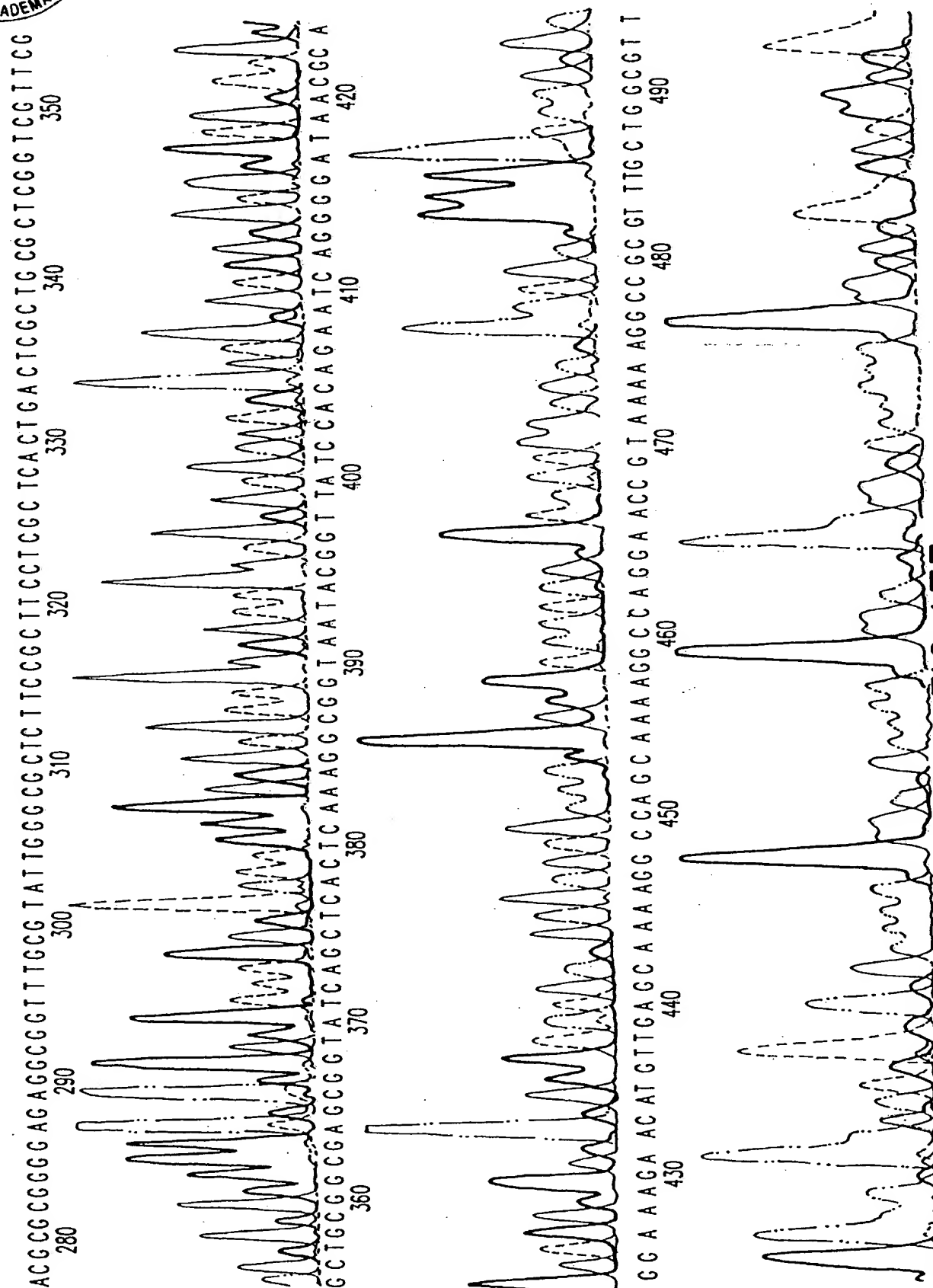


FIG.17E

T T T C C C A T A G G C T C C G C C C C C C T T G A C G A A C C A A A A T C G A C G C T C A A T T C A G A A G T T G C G A A A A C C C G
500 510 520 530 540 550 560

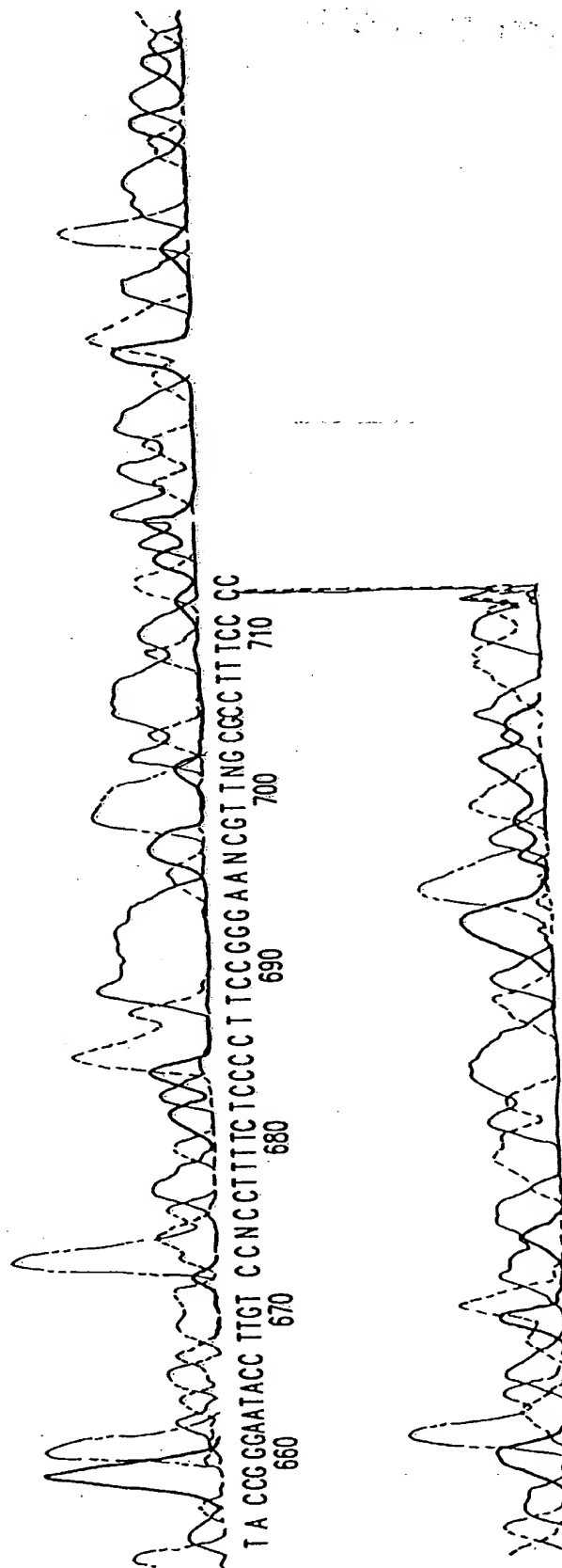
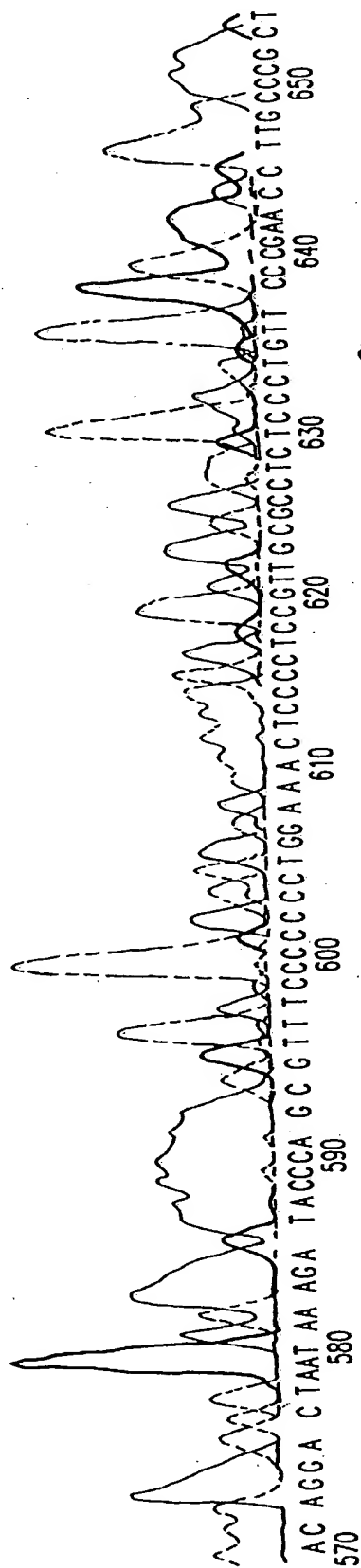


FIG.17F

TTTCCCATAGGCTC CGCCCC CC TTGA CGAACCAT CACAAA AATCGA CGCTCA ATT CAGAAG TTGG CGAAAA C CCG
500 510 520 530 540 550 560

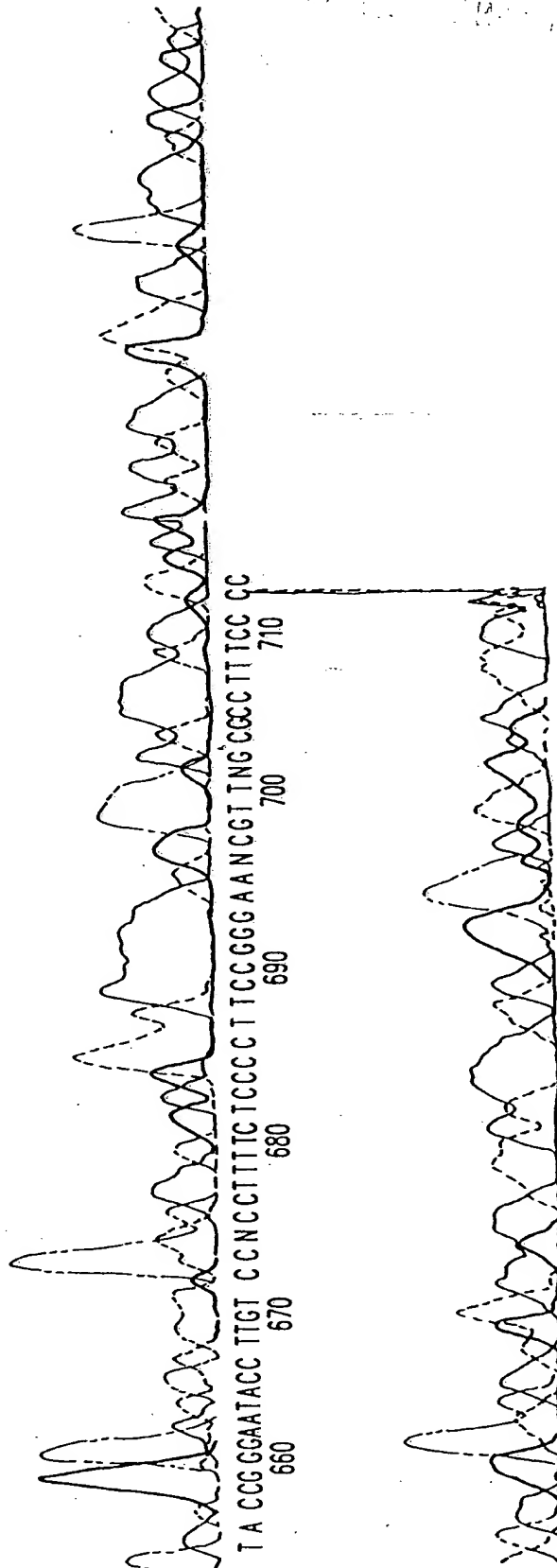
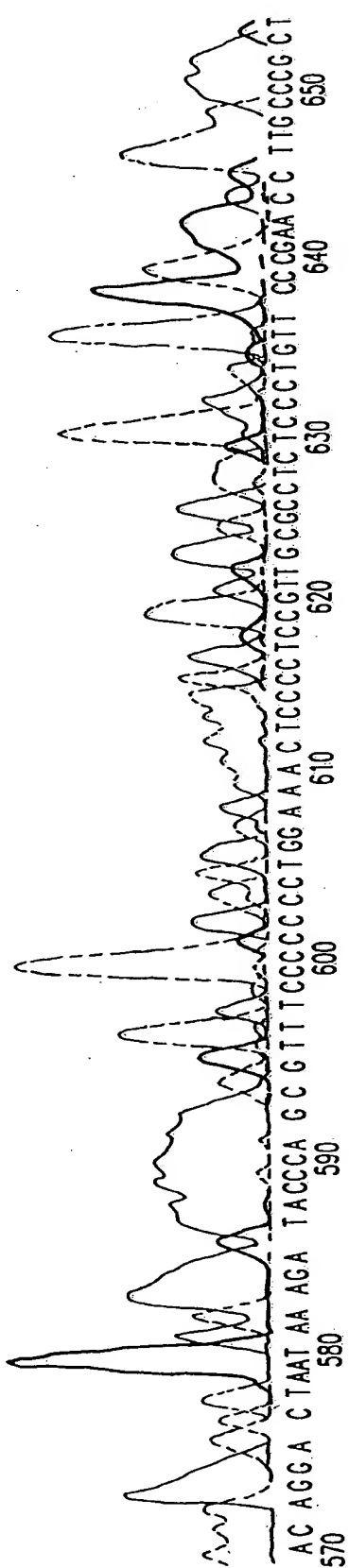


FIG.17F